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TI - Electromagnetic grinding of materials
AU - Kuznetsov, Yu. N.; Abrosimov, V. A.; Lyapunov, V. N.; Kitaev, A. L.;
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AB - The possibility of grinding materials into fine powders in a varying magnetic field (e.g., pulsating) was studied exptl. The app. consisted of a solenoid induction coil and a working chamber made of nonferromagnetic material. The chamber was filled 70-80% with the grinding objects (permanent magnets) of spherical shape. The material to be powd. (Al₂O₃) was fed to the chamber either continuously or periodically. For comparison purposes Al₂O₃ was powd. to the same degree as in the above case in ball and jet mills. In these cases the power consumption was 10-20 times higher than that for the electromagnetic grinding app.